DEC 9 2005

K051520 Pogr 1/2

GAMBRO Renal Products

510(k) Summary

Submitter:

Gambro Renal Products

10810 West Collins Avenue Lakewood, Colorado 80215

Contact:

Thomas B. Dowell, Manager, Regulatory Affairs

Phone: 303-231-4094 Fax: 303-542-5138

Date prepared:

June 6, 2005

Device name:

Gambro Polyflux 6H Capillary Dialyzer

Common name:

Hemodialyzer / Filter

Classification name:

High Permeability Hemodialysis System Accessory (876.5860)

Predicate Devices:

Polyflux 140H, 170H, 210H

Hemodialyzer / Filter

K030592

100 HG

Hemodialyzer / Filter

K904566

Device Description:

The Gambro Polyflux 6H Capillary Dialyzers/Filters, labeled for single use, have the same design, materials, intended use and function as other hemodialyzers / filters currently marketed in the United States.

These device is intended for use in hemodialysis, hemodiafiltration and hemofiltration for the treatment of acute and chronic renal failure.

Considering blood flow, body weight and extracorporeal blood volume, the Polyflux 6H is intended for pediatric indication. The membrane used in this device is a blend of polyarylethersulfone (PAES), PVP, and Polyamide, which is identical to the membrane used in the Gambro Polyflux H single use hemodialyzers cleared under 510(k) Notification (K030592) and the Polyflux L dialyzers cleared under 510(k) Notification (K010985).

Blood enters a blood inlet port where it is distributed to the hollow fibers. The patient's blood traverses the inside of the hollow fibers and exits the device via a blood exit port. By means of a hydrostatic pressure or transmembrane pressure which is created by a combination of positive and negative pressures across the membrane, plasma water along with certain lower and middle molecular weight solutes pass through the membrane and into the dialysate or filtrate compartment of the device. Uremic toxins and waste products are removed from the patient's blood in this device by means of both diffusion and convection through the membrane and into the countercurrent flowing dialysis solution during hemodialysis. The dialysate exits the devices via a dialysate outlet port.

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Indications For Use:

The Polyflux 6H is intended for chronic and acute applications in hemodialysis, hemodiafiltration and hemofiltration on small patients including pediatric indications, considering blood flow, body weight and extracorporeal blood volume.

Technological Characteristics:

The proposed device configurations have the same technological characteristics and are similar in design, function, composition, and operation, to the currently marketed configurations.

Summary of Non-Clinical Tests:

N/A

Summary of Clinical Tests:

N/A

Conclusion:

Testing performed on the Gambro Polyflux Dialyzers / Filters indicates that they are safe, effective and perform as well as the predicate devices, when used in accordance with the instructions for use.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

DEC 9 2005

Mr. Thomas B. Dowell Regulatory Project Manager Gambro Renal Products 10810 W. Collins Avenue LAKEWOOD CO 80215

Re: K051520

Trade/Device Name: Polyfulx 6H Capillary Dialyzer / Filter – Pediatric Labeling

Regulation Number: 21 CFR §876.5860

Regulation Name: High permeability hemodialysis system

Regulatory Class: II Product Code: KDI

Dated: November 29, 2005 Received: December 2, 2005

Dear Mr. Dowell:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
Other	(03)	240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Manay C. Brogdon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

GAMBRO Renal Products

Indications for Use Statement

510(k) number: (if known)	K051520			
Device Name:	Polyflux 6H Capillary Dialyzer / Filter – Pediatic Labeling			
Indications for Use:	The Polyflux 6H is intended for chronic and acute applications in hemodialysis, hemodiafiltration and hemofiltration on small patients including pediatric indications, considering blood flow, body weight and extracorporeal blood volume			
Prescription UseX_ (Per 21 CFR 801 Subpart		AND / OR	Over-The-Counter Use(21 CFR 807 Subpart C)	
(PLEASE DO NOT	WRITE BE	LOW THIS LINE - C	CONTINUE ON ANOTHER PAGE IF NEEDED)	
	Concurren	ce of CDRH, Office of	of Device Evaluation (ODE)	

Division Sign-Off)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number K05/520

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